

Product datasheet for **RN200952**

Per1 (NM_001034125) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Per1 (NM_001034125) Rat Untagged Clone
Tag: Tag Free
Symbol: Per1
Synonyms: rper1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200952 representing NM_001034125
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGTCCCCTAGAAGGGGCTGATGGGGGAGGAGACCCAGGCCCGGAGAACCTTTTTGTCTGGAG
 GAGTTCATCCCCTGGGCCCCACAGCATCGGCCCTTGCCAGGCCCTAGCCTGGCTGATGACTGATGC
 AAACAGCAATGGCTCAAGTGGCAATGAATCCAATGGACACGAGTCCAGGGGTGCATCTCAGCGGAGTTCT
 CACAGTTCATCTTCTGGCAATGGCAAGGACTCAGCTCTGCTGGAGACCACTGAGAGCAGCAAGAGTACAA
 ACTCACAGAGCCCATCCCCACCCAGCAGTCCATTGCCTATAGTCTCCTGAGTGAAGCTCAGAGCAGGA
 CAACCCGTCTACCACTGGCTGCAGCAGTGAACAGTCAAGTCAAGTCCAGGACCCAGAAAGAACTCATGACC
 GCATTCGGGAGCTCAAACCTCGGCTGCCACCAGAGCGTCGGGAAAGGGCCGCTCTGGGACCCTGGCCA
 CACTCCAGTATGCTCTGGCTGTGTCAAGCAGGTGCAGGTAACCCAGGAATATTACCAGCAGTGGAGCCT
 GGAGGAGGGTGAAGCCTGTGCCATGGACATGTCTACTTACACCCTGGAGGAATTGGAGCATATCATCT
 GAATACACTCTCCGCAACCAGGATACCTTCTCGGTGGCTGTGTCTTCTGACAGGCCGATTGTCTATA
 TTTGGAGCAGGCAGGTGTCTTGTGCTTGAACGGGATGTGTTTCGGGGTGCCTCGCTCTCAGAGCT
 CCTAGCTCCCCAGGATGTGGGTGTCTTCTATGGCTCTACTACCATCTCGCCTGCCACCTGGGGCACT
 GGCACCTCTGCAGTTCAAGGCTCAAGGACTTCAACCCAGGAAAAGTCTGTCTTCTGCCGAATCAGAGGAG
 GGCTGACCGGGATCCAGGGCCTCGCTACCAGCCATTCCGCCTAACCCCATATGTGACCAAGATTCGTGT
 CTCAGATGGGGCCCTGCACAGCCGTGCTGCTCATTGCAGAGCGCATCCACTCTGGTTATGAAGCT
 CCCCATTCTCTGACAAGAGGATCTTACCACACGGCACACACCAAGTTGCCTCTCCAGGATGTAG
 ATGAAAGGGTGCCTGCTGGTTACCTACCCAGGATCTCCTGGGGCTCCGGTACTTCTCTTTCT
 ACATCCTGAGGACCGACCTCTCATGCTGGCCATTATAAGAAGATTCTGCAGTTGGCAGGCCAGCCCTTT
 GACCACTCCCCTATTCGATTTTGTGCTCGGAATGGGAATATGTCACCATGGATACCAGTGGGCCGGCT
 TTGTGACCCCTGGAGCCGCAAGGTGGCTTTCTGCTGGGCCCATAAAGTGGCAGCCAGCCCTGAA
 TGAGGACGTCTTACACCCCAAGTCCAGTCCAGCTCCGTCCTGGACTCTGATATCCAGGAGCTCTCA
 GAGCAGATCCATCGATTGCTGCTGCAGCCAGTGCACAGCTCCAGCACCACGGGGCTCTGTGGAGTTGGCC



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CTCTGATGTCCCCTGGTCTCTCCACAGCCCTGGCTCCTCCAGTGATAGCAATGGGGTGATGCTGAGGG
 GCCTGGGCTCCTGCTCCAGTGACTTCCAGCAGATCTGTAAGGATGTGCATCTGGTAAAGCACCAGGGA
 CAACAGCTCTTCATTGAGTCCCGGGCAAGCCTCCGCCCGGCCCTCCTTGCTACAGGTACATTCA
 AGGCCAAAGTCTTCCCTGCCAGTCCCCAAACCCGGAAGTGGAGGTGGCCCTGCTCCTGACCAAGCCTC
 ATTAGCATTGGCCCTGAGGAGCCAGAGAGGAAAGAGTCTCTGGCTGCTCCTACCAGCAATCAACTGC
 CTGGACAGCATCCTCAGGTATTTGAAAAGCTGCAACATTCCTAACACAACCAAGCGTAAATGTGCCTCCT
 TTCTCCTGCACGGCCTCTCAGCCTCTGATGATGACAAGCAGAGGGCGGGTCCAGTTCCTGTGGGGCCAA
 GAAAGATACGTCTGTCAGCAGTGTCTGTTGGGAGGGGGCAACTCCTCGGAAGGAGCCAGTGGTGGGAGGC
 ACCCTGAGCCCGCTCGCCCTGGCCAATAAGGCAGAGAGCGTGGTGTCCGTCAACAGTCAGTGTAGCTTCA
 GCTCCACCATCGTCCATGTGGGAGACAAGAAGCCCCGGAGTCGGACATCATCATGATGGAAGACCTGCC
 TGGCCTGGCCCTGGTCCAGCCCCAGTCCAGCCCCAGCCCCACAGTAGCCCTGACCCAGCCCCAGAT
 GCTTATCGCCAGTGGTCTGACCAAGGCCGTGCTGTCCCTGCACACCCAGAAGGAAGAGCAAGCCTTCC
 TCAGCCGCTTTCAGAGACCTCGGCAGGCTTCGTGGGCTTGACACCTTCTGTGGCGCCTTCAGCCCTGG
 TTGCCACCATGGCCCATTCCTCTGGTCGCCGACACCACTGCCGATCTAAAGCAAAGCGTTCTCGCCAC
 CACCAGACCCCCGACCCGAAACCCCTGCTATGTGTCTCATCCTCACCTGTGCCCTCTCTGGACCCT
 GGCCACCCCCACAGCCACTACCCCTTCCAGCAGTGGTCCAGCCCTACCCACTCCCAGTGTCTCCCC
 TCGAGGAGGACCCAGCCGCTTCTCCTGCCCCACATCTGTGTACCTGCTACCTTCCCTTCTCCCTTA
 GTGACCCCAATGGTGGCCTTGGTGTCCCTAATAATTTATCCCTTCCCCAACTAGTTACCCATATGGGG
 TATCCCAGGCTCCTGTTGAGGGGCCACCTACACCTGCTTCCCCTCACCTTCTCCATCCCTACCCCCACC
 ACCTCCCAGCCCCCCCCACCGCCAGACTCCCCACTGTTCAACTCAAGATGCAGTTCCCCCTCCAGCTC
 AATCTGCTGCAGCTTGAGGAGTCCCCCGCACTGAAGGGGTGCTGCTGCAGGAGCCCCGGAAGTAGTG
 CTGGGCCCTGCCTCCAGTGGAGTCTGCTGAGCCAGAGCCAGACTGGTGGAGTACGGAGTACATC
 CAATCAGGATGCACTTTCAGGCTCCAGTGACCTGCTAGAGTACTGCTCCAGGAGACTCTGCTCTGGC
 ACAGGCTCCGCAGCCTCGGGCTCCTGGGCTCCGGCTCGGGCTCTGGGTCTGGTTCGGGATCCCAGGAAG
 GGGGAAGCACCTCAGCCAGCATCACTCGCAGCAGTCAGAGCAGCCATACAAGCAAGTACTTTGGCAGCAT
 CGACTCTTCAGAGGCTGAAGCTGGAGCTGCTCAGGCCAGGACTGAGCCTGGGACCAGGTCATTAAGTAT
 GTGCTCCAGGATCCCATCTGGCTGCTCATGGCCAACGCTGACCAGCATGTCATGATGACCTACCAGGTGC
 CGTCCAGGGATGCAGCGTCTGTGCTGAAGCAAGACCGGGAGAGGCTCCGGGCCATGCAGAAAACAAGCC
 ACGGTTCTCAGAGGACCAGCGCGGGAAGTGGTGTGCTGCACTCCTGGTCCGGAAGGGCCAGCTGCCT
 CAGGCCCTCGATGTAACGGCTTGTGTGGACTGTGGTAGCAGTGTCAAGATCCTGGCCACTCGGACGACC
 CTCTCTTCTCAGAACTGGATGGATTGGGGCTGGAGCCTATGGAAGAGGGTGGAGGCGAGGGAGTGGTGT
 TGGCGGGGTGGAGGTGGTGTGGCGGGGTGGGGGTGATGGTGGTGGAGGAGCCAGACCCAAATTGGG
 ACTAAGGGCTCAAGCTCTCAGGACTCTGCCATGGAGGAAGAACAAGGTGGGAGCTCTCCAGTCCAG
 CTTTACCTGCAGAAGAGAATGGCACCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001034125
- Insert Size:** 3882 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001034125.1](#), [NP_001029297.1](#)

RefSeq Size: 4001 bp

RefSeq ORF: 3882 bp

Locus ID: 287422

UniProt ID: [Q8CHI5](#)

Cytogenetics: 10q24

Gene Summary: This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by Clock/Arntl heterodimers but then represses this upregulation in a feedback loop using Per/Cry heterodimers to interact with Clock/Arntl. Polymorphisms in this gene may increase the risk of getting certain cancers. [provided by RefSeq, Jan 2014]